

Between-deck means the space above the line of the tonnage deck and below the line of the deck next above.

Break means the space between the line of a deck and the upper portion of that deck, in cases where that deck is stepped and continued at a higher elevation.

Camber means the perpendicular rise or crown of a deck at the centerline of the vessel measured above the skin of the vessel at the vessel's sides.

Ceiling means the permanent planking or plating fitted directly on the inboard side of frames, floors, or double bottom and includes cargo battens and refrigeration insulation but does not include false ceiling which stands off from the framing.

Coaming means both the vertical plating around a hatch or skylight and the sill below an opening in a bulkhead.

Deckhouse means a structure that is on or above the uppermost complete deck and that does not extend from side to side of the vessel. The term includes cabin trunks and closed-in spaces over the holds of vessels.

Depth of frame means the perpendicular depth of a bottom frame and the athwart distance between the inboard and outboard faces of a side frame.

Double bottom means a space at the bottom of a vessel between the inner and outer bottom plating and used solely for water ballast.

Floor means a vertical plate or timber extending from bilge to bilge in the bottom of a vessel. In a wooden vessel, "floor" means the lowermost timber connecting the main frames at the keel when that timber extends the full depth of the frames to which it is fastened. In a double bottom, floors usually extend from the outer to the inner bottom.

Gross tonnage is defined in § 69.107(a).

Hatch means an opening in a deck through which cargo is laden or discharged.

Line of tonnage deck means the line determined under § 69.109(e).

Line of uppermost complete deck means the line determined under § 69.111(b).

Net tonnage is defined in § 69.107(b).

Registered breadth is defined in § 69.53.

Registered depth means "molded depth" as defined in § 69.53.

Registered length is defined in § 69.53.

Shelter deck means the uppermost deck that would have qualified as the uppermost complete deck had it not been fitted with a middle line opening.

Step means a cutoff in a deck or in the bottom, top, or sides of a space resulting in varying heights of a deck or varying heights or widths of a space.

Superstructure means all permanent structures (such as forecastle, bridge, poop, deckhouse, and break) on or above the line of the uppermost complete deck or, if the vessel has a shelter deck, on or above the line of the shelter deck.

Tonnage deck is defined in § 69.109(c).

Tonnage length is defined in § 69.109(f).

Uppermost complete deck means the uppermost deck—

(a) Which extends from stem to stern and from side to side at all points of its length;

(b) The space below which is enclosed by the sides of the vessel;

(c) Through which there is no opening that would exempt the space below from being included in gross tonnage; and

(d) Below which there is no opening through the hull that would exempt the space below from being included in gross tonnage.

§ 69.105 Application for measurement services.

Applications for measurement services under this subpart must include the following information and plans:

(a) Type of vessel.

(b) Vessel's name and official number (if assigned).

(c) Builder's name and the vessel hull number assigned by the builder.

(d) Place and year built.

(e) Date keel was laid.

(f) Overall length, breadth, and depth of vessel.

(g) Lines plan.

(h) Booklet of offsets.

(i) Capacity plans for tanks

(j) Construction plans showing measurements and scantlings of hull and superstructure.

(k) Tonnage drawing showing tonnage length in profile and tonnage sections.

- (l) Arrangement plans.

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§ 69.107 Gross and net tonnages.

(a) Gross tonnage is the sum of the following tonnages, less certain spaces exempt under § 69.117:

- (1) Under-deck tonnage (§ 69.109).
- (2) Between-deck tonnage (§ 69.111).
- (3) Superstructure tonnage (§ 69.113).
- (4) Excess hatchway tonnage (§ 69.115(c)).

(5) Tonnage of framed-in propelling machinery spaces included in calculating gross tonnage (§ 69.121(d)(1)).

(b) Net tonnage is gross tonnage less deductions under §§ 69.119 and 69.121.

§ 69.109 Under-deck tonnage.

(a) *Defined.* “Under-deck tonnage” means the tonnage of the space below the line of the tonnage deck, as that volume is calculated under this section.

(b) *Method of calculating tonnage.* Under-deck tonnage is calculated by applying Simpson’s first rule using the tonnage length and the areas of the transverse sections prescribed by this section.

(c) *Identifying the tonnage deck.* In vessels with two or less decks, the tonnage deck is the uppermost complete deck. In vessels with more than two decks, the tonnage deck is the second deck from the keel as determined in paragraph (d) of this section.

(d) *Enumerating the decks to identify the second deck from the keel.* Only decks without openings that permit space below to be exempt from inclusion in under-deck tonnage are enumerated. Partial decks are not considered decks for the purpose of enumerating decks. However, the presence of engine and boiler casings, peak tanks, or cofferdams that penetrate a deck do not disqualify the deck from being enumerated.

(e) *Identifying the line of the tonnage deck.* (1) If the tonnage deck runs in a continuous line from stem to stern, the line of the tonnage deck is the longitudinal line at the underside of the tonnage deck.

(2) If the tonnage deck runs at different levels from stem to stern, the

line of the tonnage deck is the longitudinal line of the underside of the lowest portion of that deck parallel with the upper portions of that deck. (See § 69.123, figures 1 and 2.) Spaces between the line of the tonnage deck and the higher portions of that deck are not included in under-deck tonnage.

(f) *Tonnage length.* (1) “Tonnage length” means the length of a horizontal straight line measured at the centerline of the vessel from the point forward where the line of the tonnage deck intersects the line of the inboard faces of the ordinary side frames to the point aft where the line of the tonnage deck intersects the inboard face of the transom frames or cant frames. (See § 69.123, figure 3.)

(2) For a vessel having a headblock or square end with framing which extends from the tonnage deck to the bottom of the vessel, the tonnage length terminates on the inboard face of the head block or end framing. When a headblock extends inboard past the face of the end side frames or when the headblock plates are excessive in length, the tonnage length terminates at the extreme end of the vessel less a distance equal to the thickness of an ordinary side frame and shell plating. (See § 69.123, figure 4.)

(3) For a vessel having a square bow or stern and tonnage deck with camber, the effect of the camber on the tonnage length must be considered. The tonnage length must be measured below the tonnage deck at a distance equal to one-third of round camber and one-half of straight pitch camber.

(g) *Division of vessel into transverse sections.* (1) Except as under paragraph (m)(1)(iii) of this section, the tonnage length is divided into an even number of equal parts as indicated in the following table:

Class	Tonnage length	Divisions
1	50 ft. or less	6
2	Over 50 ft. but not exceeding 100 ft	8
3	Over 100 ft. but not exceeding 150 ft.	10
4	Over 150 ft. but not exceeding 200 ft.	12
5	Over 200 ft. but not exceeding 250 ft.	14
6	Over 250 ft.	16